TOSHIBA

OWNER'S MANUAL

LCD Color TV

20V300A
20V300E
20V300H
20V300T

Owner's Record

You will find the model number and serial number on the back of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model number: _____

Serial number: _____

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Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Color Television. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- You also can use the controls on the TV if they have the same name as those referred to on the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Important Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe use of this TV.

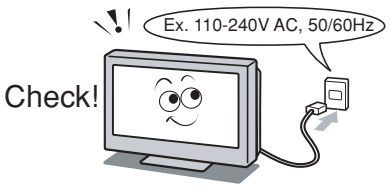
Installation

1) Always connect the power plug to an electrical outlet equipped with 110-240V, AC 50/60Hz.

Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.

WARNING ABOUT THREE-WIRE GROUNDING-TYPE PLUG (For 20V300H model only):

- This product shall be connected to a main socket outlet with a protective earthing connection.
- Never remove the earthing pin on the power plug. This system is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace the wall outlet.
- Never defeat the purpose of the earthing plug.

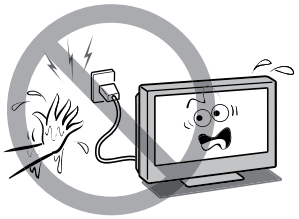


About the fuse

In a three pin earthing-type, the fuse fitted in this plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

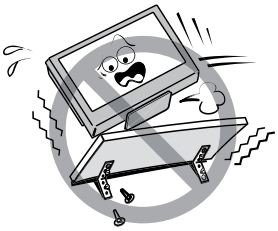
2) Never insert or remove the power plug with wet hands.

This may cause electric shock.



3) Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.

The TV may drop or fall down which may cause injury or damage.



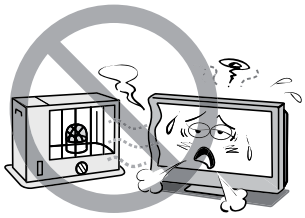
4) Never block or cover the slots and openings in the cabinet.

- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- When installing the TV against a wall, always keep the TV at least 10 cm away from the wall.
- Never place the TV on a soft unstable surface, such as a carpet, or a cushion.

The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.

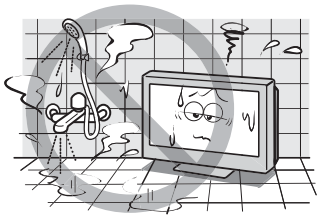
5) Never place the TV near a heater or in direct sunlight.

The surface of the cabinet or power cord may melt and result in malfunction, fire or electric shock.



6) Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.

This may cause malfunction, a fire or an electric shock.

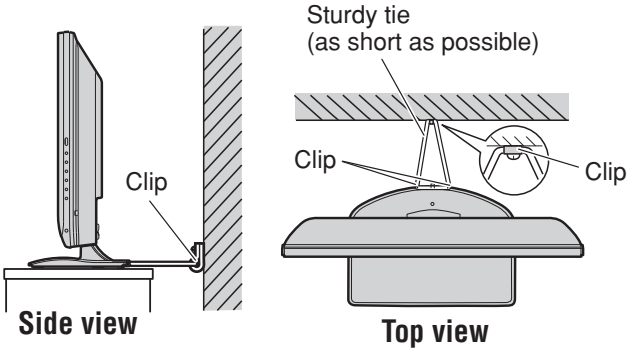


7) Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.

This may cause malfunction, a fire or electric shock.

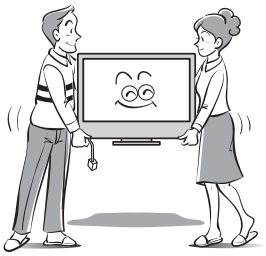
8) Install the TV in a horizontal, stable location. Connect between two clips on the back of the TV and a wall, pillar, etc., with a sturdy tie and clip of supplied accessories (☞ page 27).

- Use as short a tie as possible to ensure the TV is stable.
- If the TV is not installed securely, it may lean or fall over and cause an injury.
- To prevent injury, use the exclusive optional stand or wall-hanging bracket to install this TV on the floor or wall securely in accordance with a qualified technician.



9) Precautions for moving the TV

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the antenna cable and audio/video cables, any steady ties. Fire or electric shock may result if the power cord is damaged.
- When carrying the TV, at least two people are needed. Be sure to carry it upright.
- Never carry the TV with the screen facing up or down.



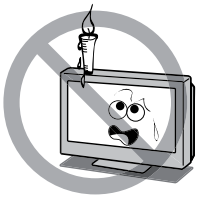
10) Precautions for installing on outdoor antenna

An outside antenna system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.
If the antenna falls down or drops, it may cause injury or electric shock.

Use

1) Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.

High temperatures can melt plastic and lead to fires.



2) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock. If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.

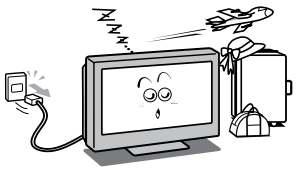
These items may cause a fire or an electric shock. If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects in the TV.

4) Never stand or climb on the TV.

Be especially careful in households with children to prevent them through climbing on top of the TV. It may move, fall over, break, become damaged or cause an injury.

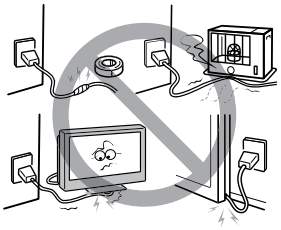
5) When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.

- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻/I Power switch is turned off.
- The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.

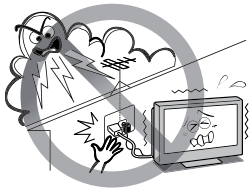


6) Never pull on the power cord when removing the plug from the wall outlet.
Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and fire or electric shock may occur.

7) Never cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.
Never place heavy objects on the cord or allow it to overheat as this may cause damage, fire or electric shock. Contact a service technician if the power cord is damaged.

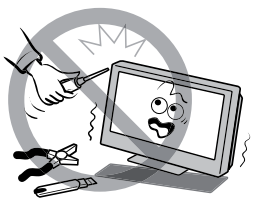


8) If there is thunder or lightning, never touch the antenna cable or other connected cables.
You may suffer an electric shock.

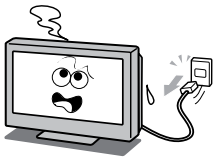


Service

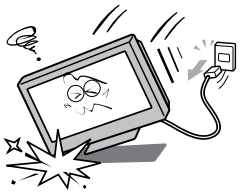
1) Never repair, modify or disassemble the TV by yourself.
It may cause a fire or an electric shock. Consult a service technician for inspection and repairs.



2) When a malfunction occurs, or if smoke or an unusual odor comes from the TV, turn off the TV and remove the power plug from the outlet immediately.
Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.



3) If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.
If the TV is still power used in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury.
Contact a service technician for inspection and repair.



4) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.
Note:
The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations.
Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.

Cleaning

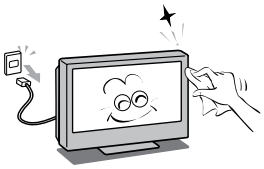
1) Remove the power plug before cleaning.

Never use solvents such as benzine or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

If the cabinet becomes dirty, clean it with a soft, dry cloth.

When cleaning the surface of the LCD display, wipe the panel surface gently with a soft, dry cloth.



2) Periodically disconnect the power plug from the outlet and check it.
If dust has collected on the power plug connectors, clean off the dust.

This dust may cause a fire due to reduced insulation on the plug.

Or, it may also cause poor contact between the power plug and the outlet leading to failure in power up.

Important information

1) About LCD screen

- If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV in the place such as window side or outside of the room.
- Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2) About cabinet

Never spray volatile compounds such as insecticide on the cabinet.

This may cause a discoloration or damage the cabinet.

3) Some pixels of the screen do not light up

The LCD display panel is manufactured using an extremely high level of precision technology, however sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

4) About Interference

The LCD display may cause interference in image, sound, etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment).

5) About using under the low temperature places

If you use the TV in the room of 0°C or less, the picture brightness may vary until the LCD monitor warms up.

This is not a sign of a malfunction.

6) About afterimage

If a still picture is displayed, an afterimage may remain on the screen, however it will disappear.

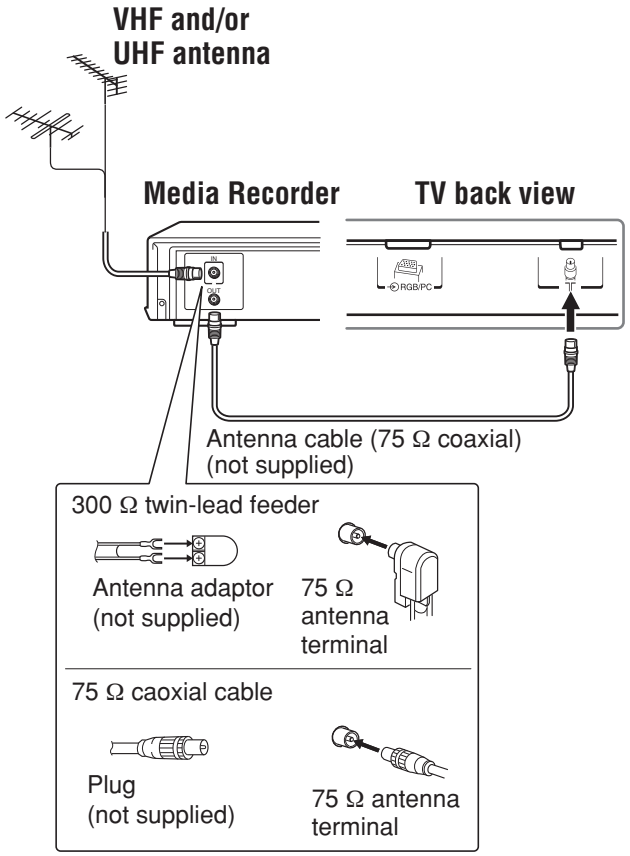
This is not a sign of malfunction.

Exemptions

- Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.
- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

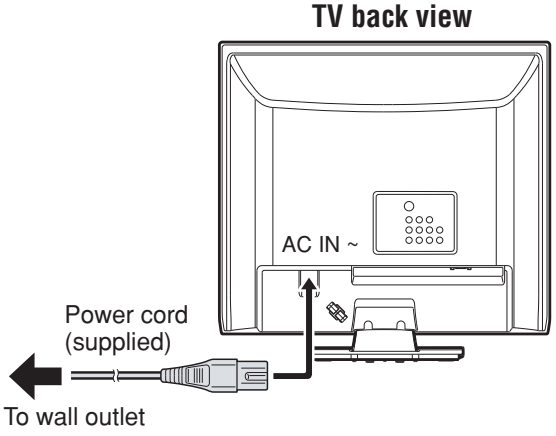
Connecting an antenna

Optimum reception of color requires a good signal and will generally mean that an outdoor antenna must be used.
The exact type and positioning of the antenna will depend upon your particular area.
Your Toshiba dealer or service personnel can best advise you on which antenna to use in your area.
Before connecting the antenna cable, turn off all main power switches.



Connecting the power cord

Connect the supplied AC power cord to the AC IN terminal at the back of TV and then plug in the power plug to an electrical outlet with standard household power within the range of ~110-240V, AC 50/60Hz.

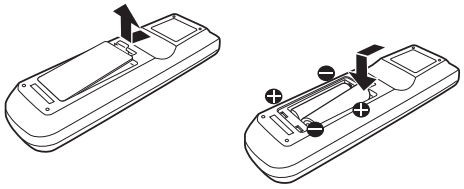


Caution:
Do not plug the power cord until you have finished connecting all of your equipment.

Exploring your new TV

Installing the remote control batteries

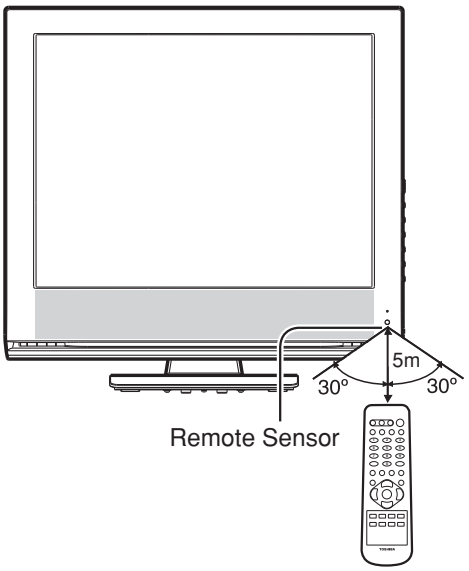
Remove the battery cover.
Insert two R06 (AA) batteries matching the –/+ polarities of the battery to the –/+ marks inside the battery compartment.



Cautions:
- *Dispose of batteries in a designated disposal area. Never throw batteries into a fire.*
- *Attention should be drawn to the environmental aspects of battery disposal.*
- *Never mix battery types or combine used batteries with new ones.*

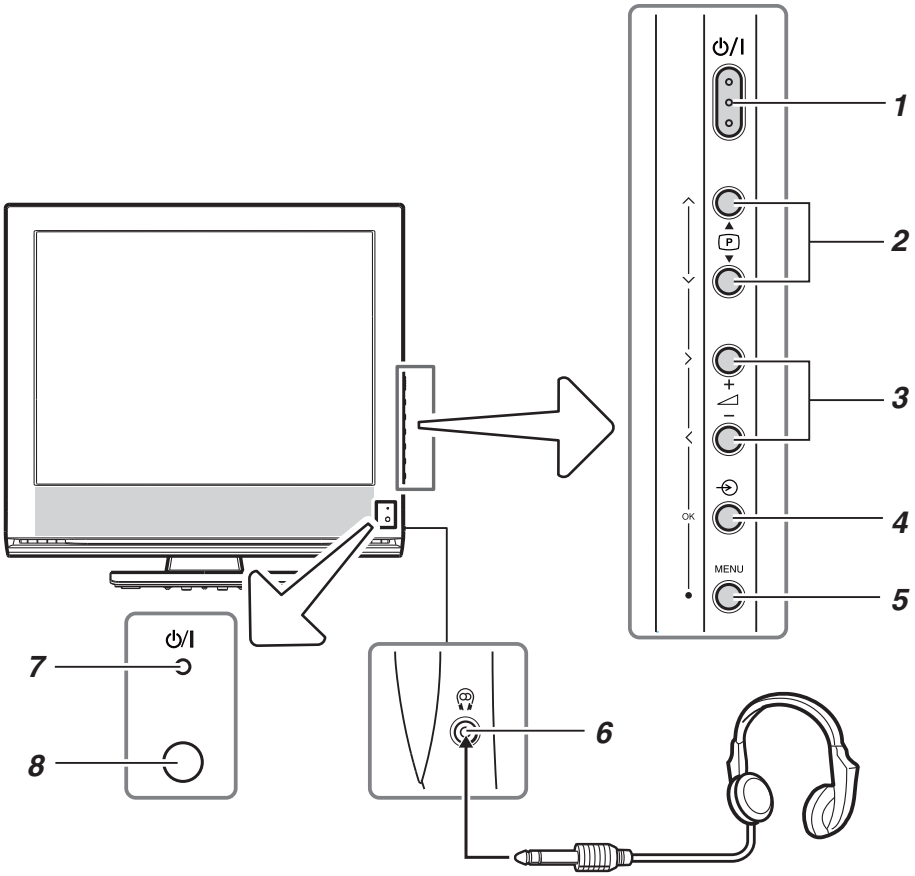
Notes:
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.*
- *If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.*

Effective range



TV side panel controls

- You can operate your TV using the buttons on the side panel or the remote control. The back of the panel provide the terminal connections to connect other equipment to your TV (☞ "Connecting your TV" pages 22, 23).
- For the use of each control, see the pages in brackets.



1 ⏻/I **(Power on/Standby)** — Press to turn the TV on/standby (☞ page 13).

2 P▲▼ **(Program position)** — When no menu is on-screen, these buttons select the program position. (☞ page 13).

∧∨ **(Menu up/down)** — When a menu is on-screen, these buttons function as up/down menu navigation buttons (☞ page 12)

3 ◿ – + **(Volume)** — When no menu is on-screen, these buttons adjust the volume level (☞ page 11).

< > **(Menu left/right)** — When a menu is on-screen, these buttons function as left/right menu navigation buttons or adjust settings (☞ page 12).

4 ⏻ **(Input source selection)** — When no menu is on-screen, this button selects the input source (☞ page 19).
OK — When a menu is on-screen, this button functions as the next menu navigation button (☞ page 12).

5 **MENU** — Press to access the menu system (☞ page 12).

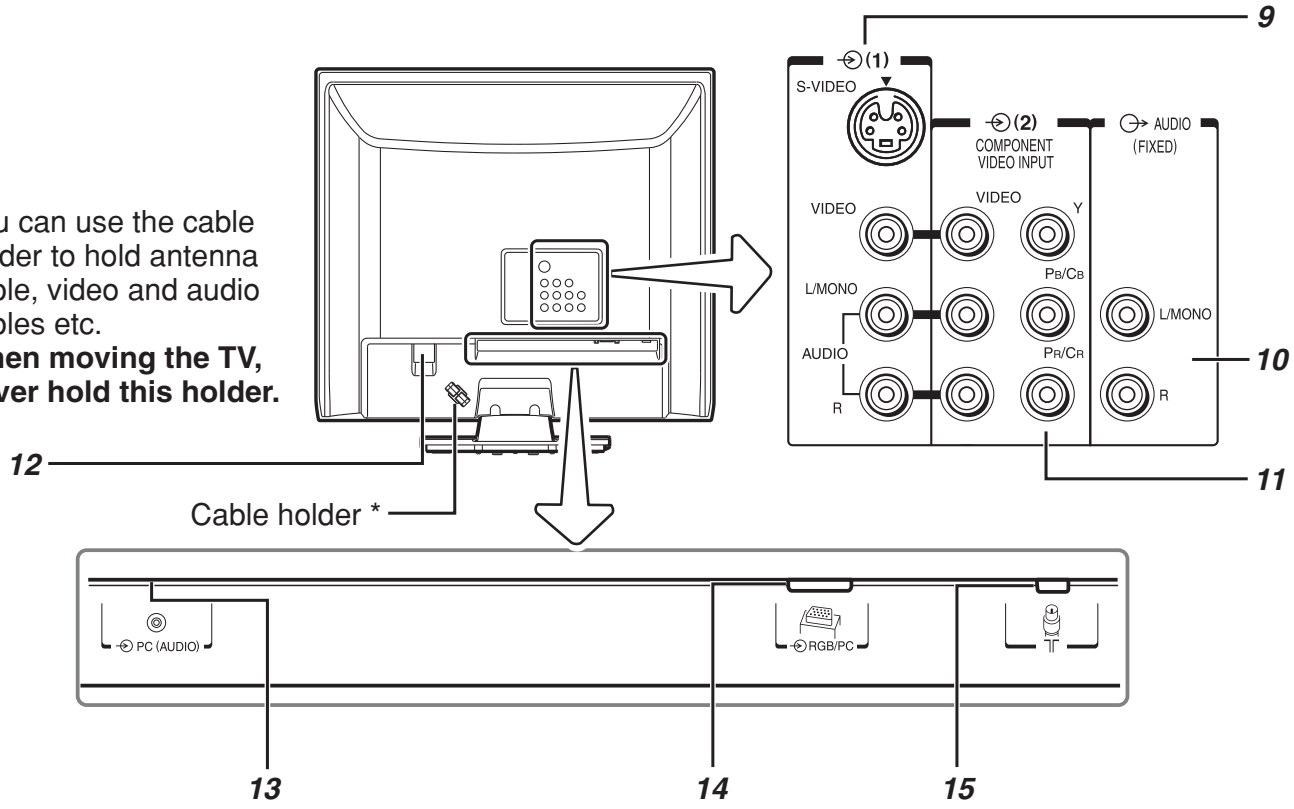
6 🎧 **(Headphone jack)** — For use with headphones. (Ø3.5 mm)

Note:
When the Headphone jack is being used, the sound from all speakers will be muted, and normal sound will be output to the headphones only.

7 ⏻/I **(Power LED)** — Power indicator (☞ page 13).

8 **(Remote sensor)** — Point the remote control toward this remote sensor (☞ page 8).

TV back panel connections



9 **(1) (Video 1 input terminals)** — Optional S-video or standard (composite) video and standard audio inputs (☞ page 22).

10 **AUDIO (output terminals)** — Standard audio outputs (☞ page 22).

11 **(2) (Video 2 input terminals)** — Component video or standard (composite) video and standard (analog) stereo audio inputs (☞ page 22).

12 **AC IN ~** — AC power input terminal (☞ page 8).

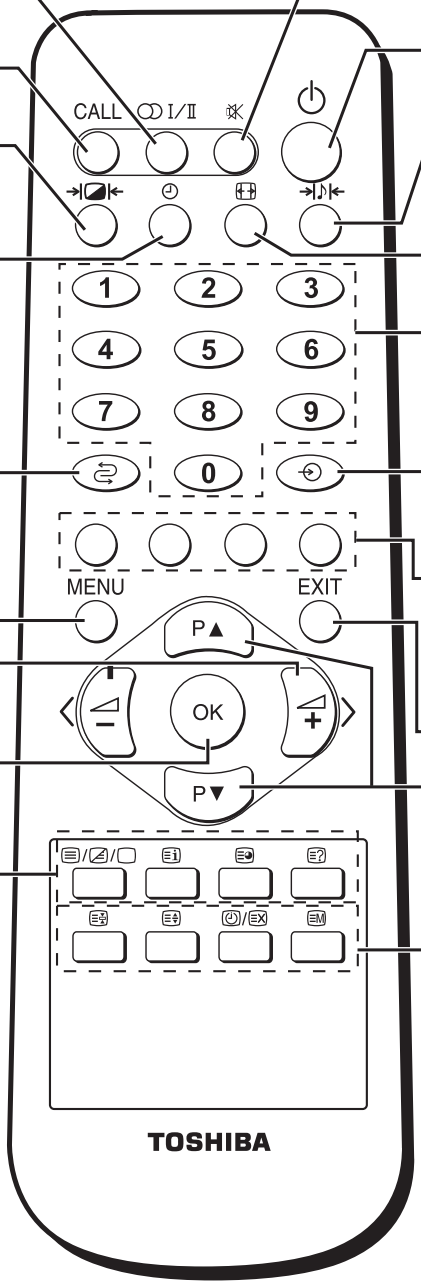
13 **PC (AUDIO) (input terminal)** — For use when connecting personal computer (PC) (☞ page 23).

14 **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (☞ page 23).

15 **(Antenna input terminal)** — Analog antenna signal input (☞ page 8).

Learning about the remote control

Location of controls



Stereo/bilingual selection (☞ page 17)

CALL (☞ page 13)

Picture mode selection (☞ page 15)

Timer mode selection (☞ page 18)

To return to the previous program (☞ page 13)

MENU (☞ page 12)

• ◿ – + Volume (These buttons adjust the volume level.)
• Menu < > (☞ page 12)

OK (☞ page 12, 19)

• ☰/◪/▢ Teletext on/superimposed/off (☞ page 20)
• ☰i Initial/index function for Teletext (☞ page 21)
• ☰◉ To access sub-pages when in teletext (☞ page 20)
• ☰? To reveal concealed text when in teletext (☞ page 21)

Sound mute (This button turns off/on the sound.)

Power on/Standby (☞ page 13)

Sound mode selection (☞ page 18)

Picture size selection (☞ page 15)

Number buttons (0-9) (☞ page 13, 21)

• Input source selection (→1, →2, PC) (☞ page 19)

Teletext control buttons (Four colored buttons: Red, Green,Yellow, Blue) (☞ page 21)

EXIT (☞ page 12)

• Program position **P▲▼** (☞ page 13)
• Menu ▲▼ (☞ page 12)
• Teletext ▲▼ (☞ page 20)

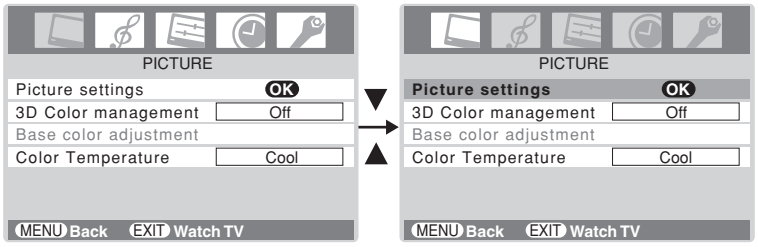
• ☰⏸ To hold a wanted page when in teletext (☞ page 21)
• ☰↕ To enlarge teletext display size (☞ page 21)
• ☰⏲/☰✕ To select a page while viewing a normal picture when in teletext (☞ page 21)
To select the time display (☞ page 21)
• ☰M To switch between Auto and List mode when in teletext (☞ page 20)

Learning about the menu system

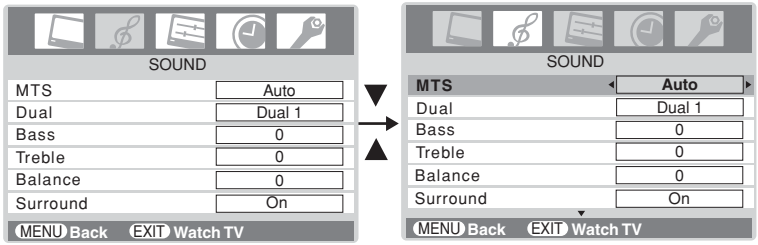
We suggest you familiarize yourself with the display charts before using the menu system:
- Press **MENU** to display menu, then press < or > to select main menu headings.
- Press ▼ or ▲ to select an item and press < or > to select or adjust setting.
- Press **OK** to display the next menu.

Displaying the menu chart

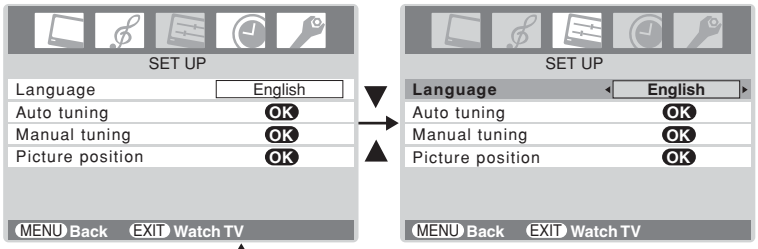
PICTURE menu



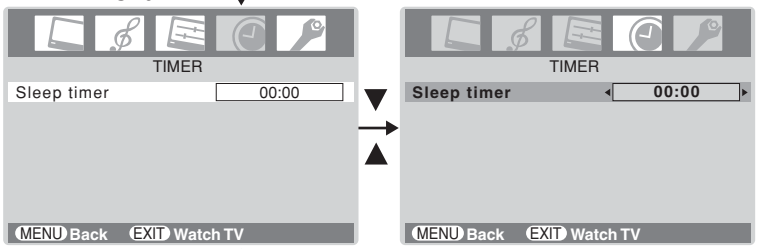
SOUND menu



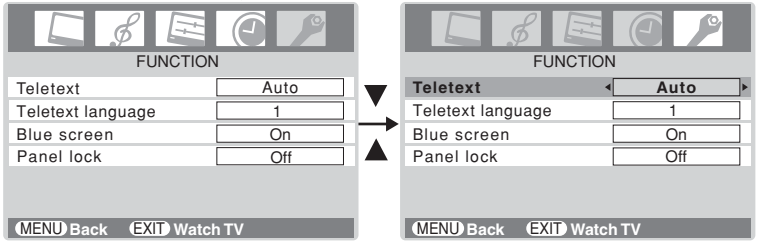
SETUP menu



TIMER menu



FUNCTION menu



Notes:
- *In the video input mode (→1 – →2), **Auto tuning** and **Manual tuning** are not available. Instead, **Manual setting** appears in the SET UP menu (☞ page 19).*
- *If you connect external equipment via component video source to external input, **Manual setting** menu is not available.*
- *If you do not make a selection for a while, the menu display disappears automatically.*
- *If you want to close the menu display instantly, press **EXIT** .*
- *To return to the previous menu, press **MENU**.*
- *The ▼/▲ function as the Program position P▲/P▼ when there is no menu display on the screen.*
- *The </> function as the Volume ◿+/◿– when there is no menu display on the screen.*
- *In the PC input mode, **PC Setting** appears in the **SET UP** menu (☞ page 24).*
- *When you use the color management function (☞ page 16), you can select the **Base color adjustment** in the **PICTURE** menu.*

Turning the TV on

Switching on the TV

Connect the power cord to the TV and a wall outlet.

1 Press ⏻/I on the right side of TV or ⏻ on the remote control.

The ⏻/I Power indicator lights in green.

Note:

If you watch black and white programs when the color system mode is set to Auto, color noise may appear on the screen. In this case select the appropriate Color system (For the system of each country or region, refer to pages 14 and 26).

Switching the TV to standby mode

Press ⏻ on the remote control or ⏻/I on the TV side panel to switch to the standby mode.
The ⏻/I Power indicator lights up in red.

Notes:

- *This TV is not fully disconnected from the main supply, as minute current is consumed even when ⏻/I is in standby mode. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.*
- *The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This function does not work in external input or Blue screen Off mode.*
- *If power is cut off while you are viewing the TV, the Last Mode Memory function turns on the TV automatically when power is applied again. If power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.*

Watching TV programs

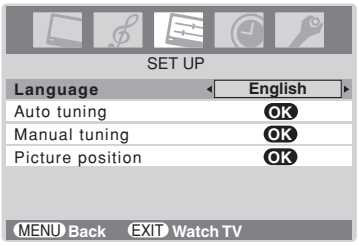
Selecting the menu language

Choose from 5 different languages (English, Chinese (CS), Malay, Thai or Vietnamese) for the on-screen display.

1 Press **MENU**, then press < or > to display **SET UP** menu.

2 Press ▼ or ▲ to select **Language**.

3 Press < or > to select the desired language.



Changing the program position

1 Enter the desired program position number using the **Number** buttons on the remote control.
For program positions below 10, use 0 and the required number e.g., for program position 1, press “0” and then “1”.

2 You can also change the program position by using P▲ or P▼.
The program position will be displayed on the screen with the Mono/Stereo/Dual audio status.

Note:

The program position selection change between different format channels takes several seconds.

Switching between two program positions

You can switch two program positions without entering actual position number each time.

1 Select the first program position you want to view.

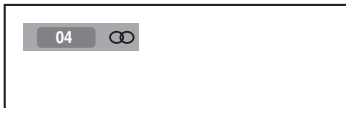
2 Select the second program position with the **Number** buttons (0-9).

3 Press ⇄. The previous channel will be displayed.

Each time you press ⇄, the TV will switch back and forth between the two program positions.

Displaying the on-screen information

1 Press **CALL** to display the following on-screen information.



The information will disappear in 6 seconds.
- Program position or external input mode selected
- Mono/Stereo/Dual audio status

2 To erase the display instantly, press **CALL** again.

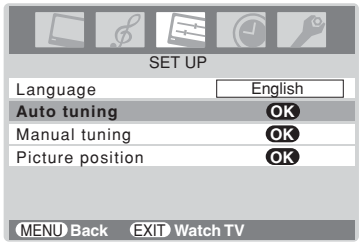
Programming channels into the TV's channel memory

- First, use the Auto tuning function to preset all the active channels in your area automatically. Then, arrange the preset channels with the Manual tuning function so that you can tune into only desired channels.
- Use the Manual tuning operation if desired channels cannot be preset with the Auto tuning or if you would like to preset channels to specific position numbers one by one.

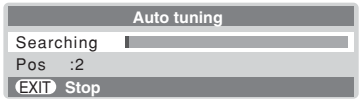
Programming channels automatically

1 Press **MENU**, then press < or > to display the **SET UP** menu.

2 Press ▼ or ▲ to select **Auto tuning**.



3 Press **OK** to start the automatic search. The search will begin for all available stations.



The slide bar will move along the line as the search progresses.
If you make a mistake, simply repeat steps 1-3 to start again from the beginning.

4 When the automatic search is completed, the TV will automatically return to the first program position.

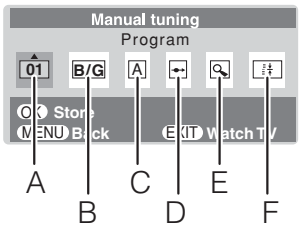
5 Press P▲ or P▼ to view the programmed position.

Note:
When you preset the program channel which sound of broadcast transmission system adopts "M" system, the sound system may not be tuned correctly if the radio waves transmit badly. At that time, preset the channel by ***Manual tuning****. The countries such as Myanmar, Brazil, Chile, Colombia apply to this case. See page 26 for more details.*

Manually setting channels in the channel memory

1 From the **SET UP** menu, press ▼ or ▲ to select **Manual tuning**.

2 Press **OK** to display the **Manual tuning** menu.
Press < or > to select an item, then press ▼ or ▲ to adjust the item as shown below.



A. Program position selection

B. Sound system (☞ page 26)

C. Color system (☞ page 26)

A : Automatic (factory set), **P** : PAL, **S** : SECAM, **N4** : NTSC 4.43 (MHz), **N3** : NTSC 3.58 (MHz)
If the color of a certain channel is abnormal, the automatic color system selection (A) may have malfunctioned, or sound system selection is wrong. In such a case, select another color and/or sound system (☞ page 26).

D. Program position skip selection
Press ▼ or ▲ to turn the program position skip option on "⊷" or off "⊶".
The program position will then be skipped when you select channels with P▲ or P▼.

E. Channel search operation
Press ▲ to search up the band or ▼ to search down the band.
Press ▼ or ▲ repeatedly until your desired channel is displayed.
When a station/satellite is found, it will be displayed.
NEVER PRESS ANY OTHER BUTTONS WHILE THE TV IS TUNING.

F. Auto Fine Tuning
Press ▼ or ▲ to turn the Auto Fine Tuning option on "⁞" or off **"0"**.
The Auto Fine Tuning function automatically corrects slight fluctuations when receiving signals.

Manual Fine Tuning
While the Auto Fine Tuning turn off **"0"**, press ▼ or ▲ so that the better picture and sound are obtained.

Press **OK** to store your settings.

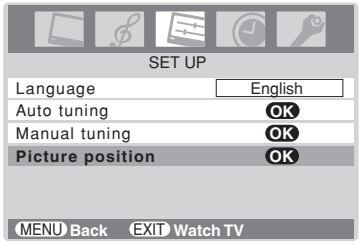
Picture adjustment

Adjusting the picture position

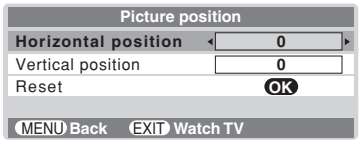
Adjustment to the position of the picture may be made to suit your viewing preferences.

1 Press **MENU**, then press < or > to display the **SET UP** menu.

2 Press the ▼ or ▲ to select **Picture position**.



3 Press **OK**, then press ▼ or ▲ to select an item you want to adjust.



4 Press < or > to adjust the settings as required.

Note:
When the picture format is in 16:9 mode, only the Horizontal position can be adjusted.

Resetting the picture position

This function resets your picture position settings to the factory settings.

1 From the **Picture position** menu, press ▼ or ▲ to select **Reset**.

2 Press **OK**.

Selecting the picture size

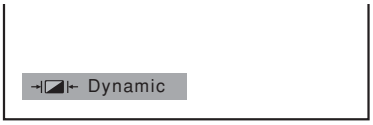
Picture size selection is available only for 720p and 1080i HD video. It is not available for 480i, 576i, 480p and 576p SD video.

Press ⊟ to change the picture size, 4:3 or 16:9 can be selected.

Selecting the picture mode

You can select the picture quality instantly among three preset modes and one user-set mode.

- Press →◪← to select the desired picture quality.

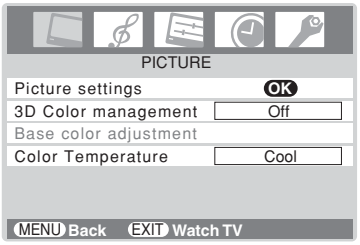


Mode	Picture quality
→◪←Dynamic	bright and dynamic picture
→◪←Standard	standard picture
→◪←Mild	soft picture
→◪←Memory	the picture quality you set

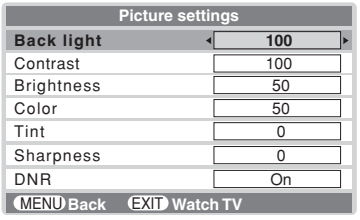
Note:
In the PC input mode, this mode is not available.

Adjusting the basic picture quality

1 Press **MENU**, then press < or > to display the **PICTURE** menu.



2 Press ▼ or ▲ to select the **Picture settings** menu, then press **OK**.



3 Press ▼ or ▲ to select an item you want to adjust, then press < or > to adjust the settings as required.

Selection	<	Pressing	>
Back light	darker		lighter
Contrast	lower		higher
Brightness	darker		lighter
Color	paler		deeper
Tint	reddish		greenish
Sharpness	softer		sharper

Notes:

- *The **Tint** may only be adjusted on a tape which has been recorded and played back on an NTSC VCR.*
- *In the PC input mode **Color**, **Tint** and **Sharpness** modes are not available.*

Activating the DNR (Digital Noise Reduction)

If the receiving signal is weak and the picture is blurry, the picture may be improved when using this function.

1 From the **Picture settings** menu, press ▼ or ▲ to select **DNR**.

2 Press < or > to select **On** or **Off**.

Notes:

- *This function is available for 480i and 576i signals.*
- *In the PC input mode and component 720p, 1080i input mode, DNR modes is not available.*

Selecting the color temperature

You can change the tone of the picture by selecting from three preset color temperatures: **Cool**, **Normal** or **Warm**.

1 Press **MENU**, then press < or > to display the **PICTURE** menu.

2 Press ▼ or ▲ to select **Color Temperature** and press < or > to select mode you prefer.

Cool : Lends a blue hue to the picture.
Normal : Neutral
Warm : Lends a red hue to the picture.

Adjusting the color management

You can adjust the picture color quality by selecting from 6 base color adjustments: **Red**, **Green**, **Blue**, **Yellow**, **Magenta** or **Cyan**.

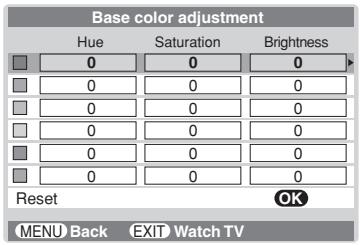
1 Press **MENU**, then press < or > to display the **PICTURE** menu.

2 Press ▼ or ▲ to select **3D Color management**, then press < or > to select **On**.

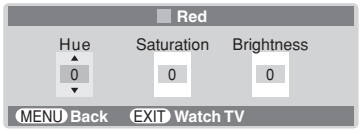
3 Press **OK**, then press ▼ or ▲ to select **Base color adjustment**.

4 Press **OK**, then press ▼ or ▲ to select an item you want to adjust.

5 Press >, then press < or > to select **Hue**, **Saturation** or **Brightness**.



6 Press ▼ or ▲ to adjust the settings as required.



Notes:

- *If you select color management **Off** mode, this mode is not available.*
- *In the PC input mode, this mode is not available.*

Resetting the base color adjustment

The Reset function adjusts the base color adjustment to the factory settings.

1 From the **Base color adjustment** menu, press ▼ or ▲ to select **Reset**.

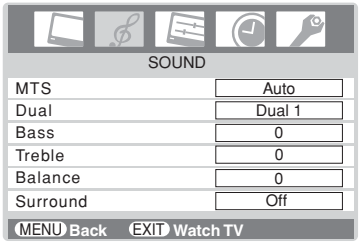
2 Press **OK**

Sound adjustment

Setting the MTS (Multi-channel TV Sound)

Auto mode
The MTS Auto mode automatically recognize stereo/bilingual programs depending on the broadcast signal.

1 Press **MENU**, then press < or > to display the **SOUND** menu.



2 Press ▼ or ▲ to select **MTS**, then press < or > to select **Auto** or **Mono**.

Mono mode
If you experience noise or poor reception of any stereo/bilingual program, set the **MTS** mode to **Mono**.
Noise will be reduced and reception may improve.

Note:
*If you experience noise with a particular program on whose channel reception is usually good, try setting MTS mode to **Auto**, then switch ⦶ I/II to ⬭ Mono (monaural).*

Selecting the dual 1 or dual 2 mode

You can hear only dual 1 or dual 2 sound selected, whenever bilingual programs are received.

1 Press **MENU**, then press < or > to display the **SOUND** menu.

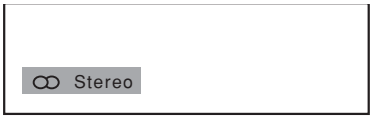
2 Press ▼ or ▲ to select **Dual**, then press < or > to select **Dual 1** or **Dual 2**.

Notes:
- *When the MTS setting is in **Mono** mode, the **Dual** menu is not selectable.*
- *The **Dual** menu setting status remains even if the TV is turned off.*

Selecting the stereo programs

1 When a stereo program is received, ⦶ appears.

2 Press ⦶ I/II to select the stereo/monaural mode. ⦶ **Stereo** and ⬭ **Mono** appear cyclically on the screen.



Selecting the bilingual programs

1 When a bilingual program is received, ●○ appears.

2 Press ⦶ I/II to select the sound to be heard. The sound differs according to the transmission system: NICAM or German stereo/bilingual broadcast.

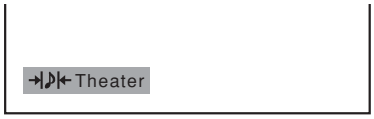
Display	Sound to be heard	
	NICAM	German stereo/ bilingual broadcast
●○ Dual 1	Sub I sound	Main sound
○● Dual 2	Sub II sound	Sub sound
⬭ Mono	Main sound	—

Note:
These settings are not stored in the TV memory.

Selecting the sound mode

You can select the sound quality instantly among two preset modes and one user-set mode.

• Press ⇥♪⇤ to select the desired sound quality.



Mode	Sound quality
⇥♪⇤ Theater	a movie theater filled with a dynamic sound
⇥♪⇤ News	news/dialogue
⇥♪⇤ Memory	the sound quality you set

Adjusting the sound quality

1 From the **SOUND** menu, press ▼ or ▲ to select an item you want to adjust.

2 Press < or > to adjust the settings as required.

	< Pressing >	
Bass	weaker	stronger
Treble	weaker	stronger
Balance	decreases the right channel	decreases the left channel

Selecting the surround sound

1 From the **SOUND** menu, press ▼ or ▲ to select **Surround**.

2 Press < or > to select **On** or **Off**.

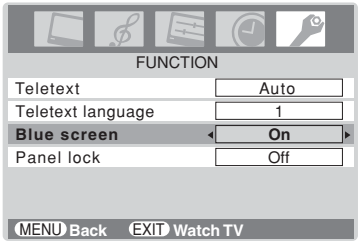
Note:
*When **Surround** is set to **On**, **Balance** control will not be available.*

Activating blue screen

With the blue screen function **On**, the screen will automatically turn blue and the sound will be muted when no signal is being received.

1 Press **MENU**, then press < or > to display the **FUNCTION** menu.

2 Press ▼ or ▲ to select **Blue screen**.



3 Press < or > to select **On** or **Off**.

Other features settings

Selecting the timer menu

The Timer is especially useful if you want the TV to turn itself off after a selected period of time.

1 Press **MENU**, then press < or > to display the **TIMER** menu.

2 Press ▼ or ▲ to select **Sleep timer**.

3 Press < or > to set the Off delay time.

The timer display will set by 10 minutes, up to 12 hours and 50 minutes.

4 Press **EXIT** to exit the menu.

Notes:

- *You may also press ⊕ to direct select **Sleep timer** menu. Continue to proceed from step 3 above to set the Off delay time.*
- *If you press and hold < or > to set the Off delay time, the timer display will set by 30 minutes, up to 12 hours 30 minutes.*

To lock the buttons on the TV panel (Panel Lock)

You can lock the control buttons on the TV to prevent your settings from being changed accidentally (by children, for example). When the Panel lock is **On**, no control buttons on the TV panel will operate except ⏻/I power button.

1 Press **MENU**, then press < or > to display the **FUNCTION** menu.

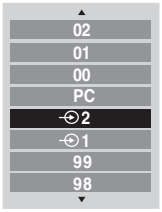
2 Press ▼ or ▲ to select **Panel lock**.

3 Press < or > to select **On** or **Off**.

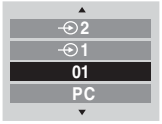
Selecting the video input source to view

1 Press and hold ⏀ or press **OK** on the remote control until the video input mode list appears on the screen, then press ▼ or ▲ to select appropriate input source (or press ⏀ on the TV front panel or ⏀ on the remote control repeatedly to select required input source directly).

OK:



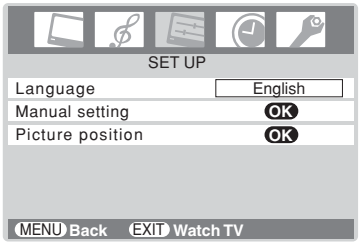
⏀ (Press and hold)



2 Press **OK**.
⏀ 1 (⏀ (1), video 1 input) or ⏀ 1S (S-video input),
⏀ 2 (⏀ (2), video 2 input) or ⏀ 2C (component video input),
PC (⏀ RGB/PC, PC input)

Setting the manual setting menu

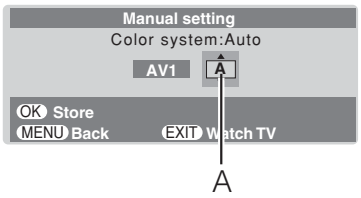
1 Press **MENU**, then press < or > to display the **SET UP** menu.



2 Press ▼ or ▲ to select **Manual setting**, then press **OK**.

3 Press ▼ or ▲ to select the item as shown below.

Press **OK** to store your settings.



A. Color System
Confirm that color system is set to "**A**" (Auto). If not, select "**A**" with ▼ or ▲.

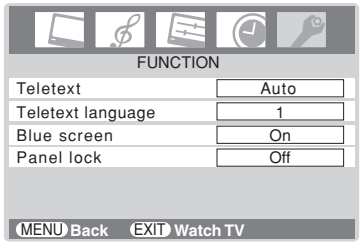
Teletext

This TV has a multi-page teletext memory, which takes a few moments to load and it offers two ways of viewing Teletext **Auto** and **List** which are explained below.

Setting up the teletext mode

To select a language for teletext:
The language 1-6 option enables the display of different language when using Teletext.

1 Press **MENU**, then press < or > to display the **FUNCTION** menu.

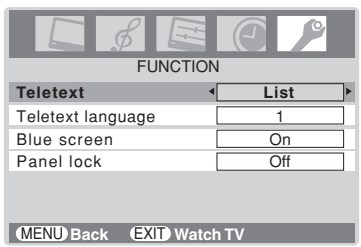


2 Press ▼ or ▲ to select **Teletext language**, then press < or > to select the required language.
- **Language 1**: English, German, Dutch, Flemish, Russian, Bulgarian, Ukranian, Lettish, Lithuanian, Czech, Slovak, Estonian
- **Language 2**: Polish, German, Dutch, Flemish, Estonian, Lettish, Lithuanian, French, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian
- **Language 3**: English, French, Hebrew, Turkish, Arabic
- **Language 4**: English, French, Hebrew, Turkish, Farsi (Iranian/Persian)
- **Language 5**: English, German, Dutch, Flemish, Hungarian, Swedish, Finnish, Danish, Italian, Spanish, Portuguese, Turkish, Greek
- **Language 6**: English, German, Dutch, Flemish, Russian, Bulgarian, Lettish, Lithuanian, Czech, Slovak, Estonian, Byelorussian

To select teletext mode:
Select a channel position with the desired teletext service.

1 From the **FUNCTION** menu, press ▼ or ▲ to select **Teletext**.

2 Press < or > to select **Auto** or **List** mode.



Notes:
- *While viewing the teletext page, the teletext mode may also be change between **Auto** and **List** by pressing .*
- *When you are watching the teletext program, **SET UP** menu and **FUNCTION** menu are not selectable.*

Teletext general information

/ / button:
Pressing / / once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels.

When you first press / / to access the text service, the first page you see will be the initial page.

In **Auto** mode, this displays the main subjects available and their relevant page numbers.

In **List** mode, you will see the page numbers currently stored on the each color button.

Sub-pages:
Once in this chosen page, if there are sub-pages they will automatically load into memory without changing the one you are reading. If there are many sub-pages, it will take a long time for them all to load and this will depend on the speed with which the broadcaster transmits them.

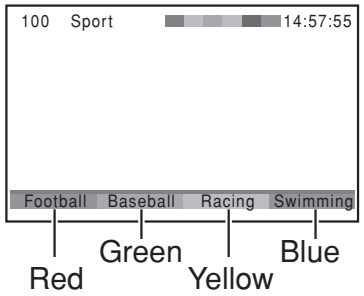
To access the sub-pages in memory, press , then use red or green coloured button to view them.

Using Auto mode

There are two Modes: **Auto** will display FASTEXT, if available. **List** will display your four favorite pages. In either mode, as an alternative to the colored buttons, you can access a page by entering a 3-digit number, using the **Number** buttons on the remote control, or to advance to the next page, press P▲, to go back to the previous page press P▼.

To change between **Auto** and **List**, see above.

- Press / / to access teletext.



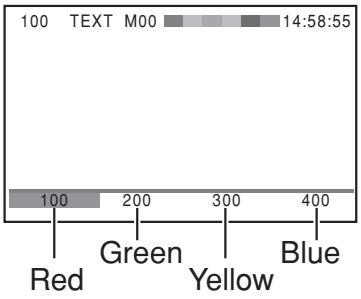
If FASTEXT is available, you will see 4 colored titles at the base of the TV screen. To access any given subject, simply press the relevant colored button on the remote control.

If FASTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding colored button.

For further information on your particular text system(s), see the broadcast teletext index page or consult your local Toshiba dealer.

Using List mode

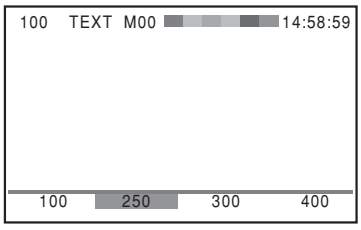
1 Press ▤/▨/▢ to access teletext.



The four choices at the bottom of the screen are now number – **100**, **200**, **300** and **400**, which have been programmed into the TV's memory.

2 To view these pages, use the colored prompt buttons.
e.g. press the Green button to view page 200.

3 If you want to change these stored pages, press the colored button for the color you want to change.
e.g. Press the Green button and enter the 3-digit number.



This number will change in the top left of the screen and in the colored highlight.

4 Press **OK** to store your choice. The bars at the bottom of the screen will flash white.

5 You may view other pages by simply entering the 3-digit page number – but NEVER press **OK** or you will lose the favorite already stored.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

▤/▨/▢ To display a page of teletext:
Press ▤/▨/▢ to display teletext. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode.

▤ To display an index/initial page:

In Auto-mode
Press ▤ to access the index page. The one displayed is dependant on the broadcaster.

In LIST-mode
Press ▤ to return to the 100 page or initial page.

▤ To reveal concealed text:
Some pages cover topics such as quizzes and jokes. To discover the solutions, press ▤.

▤ To hold a wanted page:
This function is included as it is part of the broadcast teletext system but you will not need it as this TV allows you to control the display of sub-pages.

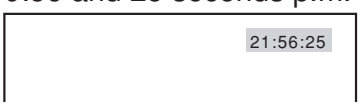
▤ To enlarge the teletext display size:
Press ▤ once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

◷/▤ To select a page while viewing a normal picture:
When in teletext mode, if a page selection is made and then ◷/▤ is pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press ▤/▨/▢ to view the page.

Note:
It will not be possible to change program position while in Teletext mode, you will have to cancel the teletext first by pressing ▤/▨/▢ to return to a normal TV picture.

To select the time display:
If you press ◷/▤ while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 5 seconds.

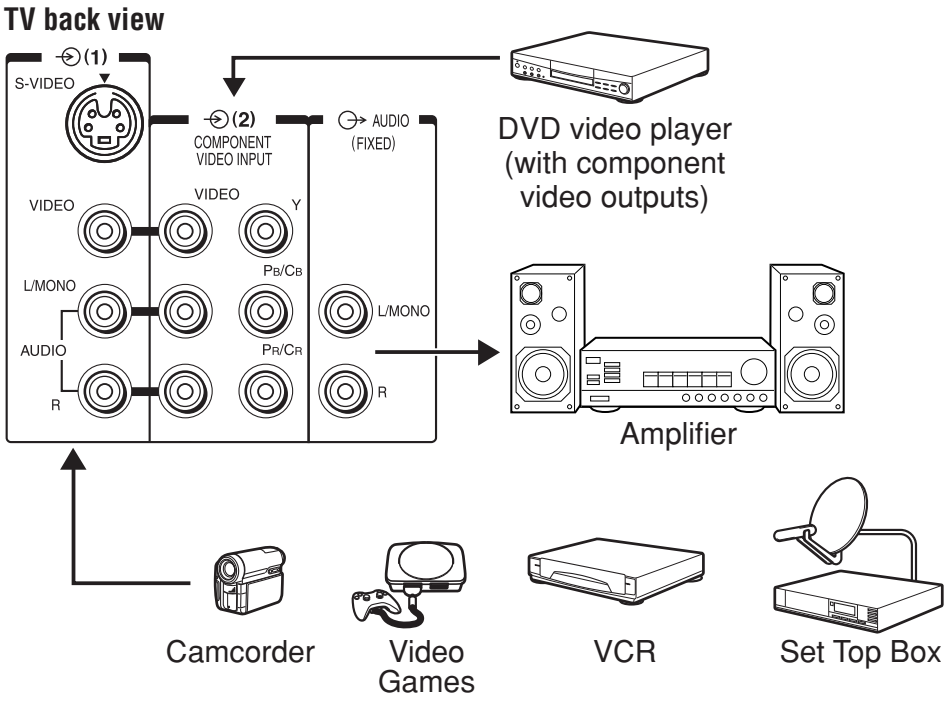
9:56 and 25 seconds p.m.



Back connections

You can connect a wide variety of auxiliary equipment via the terminals located on the back of TV. Please always refer to the owner's manual of the equipment to be connected for full details.

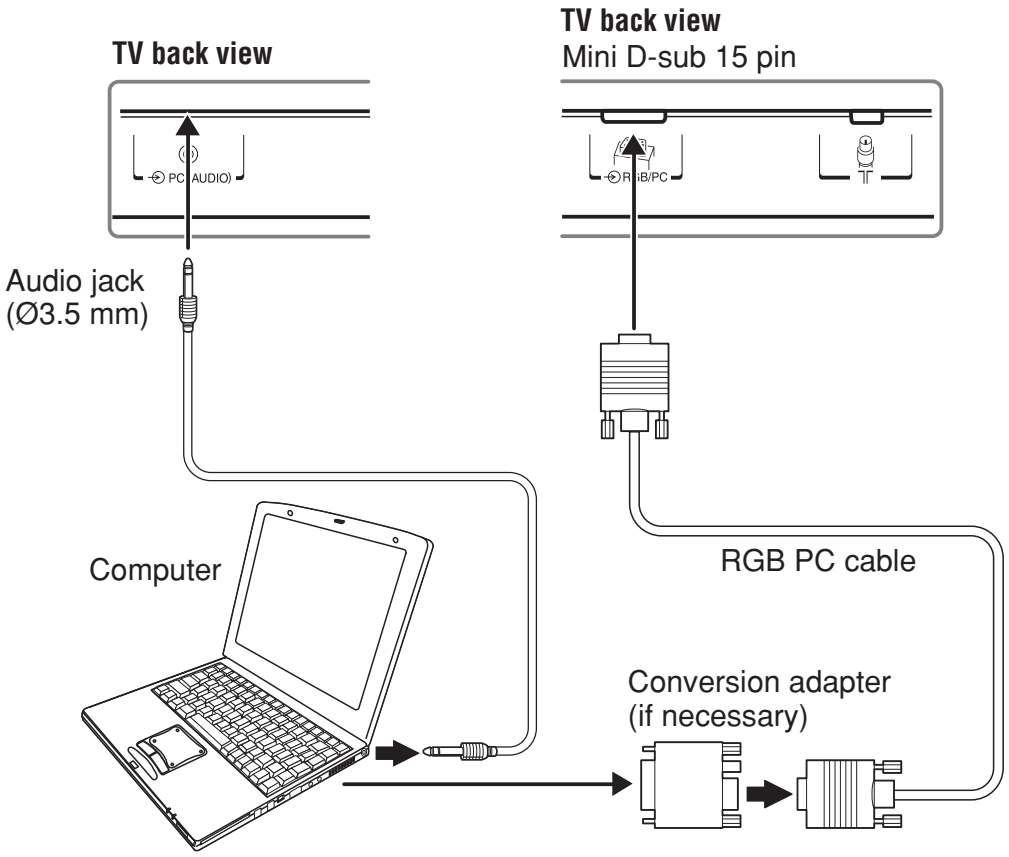
Connection example



- Before connecting any external equipment, turn off all main power switches.
- If you connect both of the **S-VIDEO** input terminal and **VIDEO** input terminal, the **S-VIDEO** signal will appear on the screen (display changes to ⊖ 1S).
- If you connect mono sound equipment to ⊖ **(1)**/⊖ **(2)**, connect the audio output of the equipment to the **L/MONO** jack on the TV.
- You can enjoy Video Games with this TV. However shooting games, where the player shoots at a target on the TV screen with a light gun, may not work because of the LCD Color TV properties.
- If you connect both of the **COMPONENT VIDEO INPUT** terminal and **VIDEO** input terminal, the **COMPONENT VIDEO** signal will appear on the screen (display changes to ⊖ 2C).
- The **COMPONENT VIDEO INPUT** consists of three component video signals **(Y, P_B/C_B, P_R/C_R)** and provides the best picture performance. These terminals can only be used with the component video compatible equipment e.g. DVD video player, etc.
- Additional equipment and cables shown are not supplied with this TV.
- Connect the ⊖ AUDIO outputs to an audio amplifier may allows you to hear TV sound through external speakers. To control the audio through the amplifier, set the volume of the TV to minimum and adjust the sound of the amplifier according to your preference.

Connecting a computer

An analog RGB (15 pin) computer cable can be connected.



Connect a PC cable from the computer to the ⊕ **RGB/PC** terminal on the back of the TV.

The following signals can be displayed:
- VGA: VESA 640 x 480 @ 60 Hz
- SVGA: VESA 800 x 600 @ 60 Hz
- XGA: VESA 1024 x 768 @ 60 Hz

However, these signal formats are converted to match the number of pixels of the LCD panel.

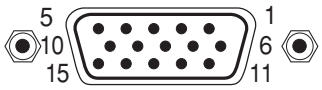
Therefore, the TV may not display small text properly.

For the best PC viewing, set PC source to SVGA @ 60 Hz format. Other signal formats may not be displayed correctly.

Notes:
- *Some PC models cannot be connected to this TV.*
- *There is no need to use an adapter for computers with DOS/V compatible mini D-sub 15 pin terminal.*
- *A bar may appear in the upper, lower, right or left side of the screen, or parts of the picture may be obscured depending on some signals. This is not the malfunction.*
- *If the edges of the picture are stretched, readjust the picture position adjustments in the **PC Setting** menu.*
- *Depending on the specification of the PC you are playing the DVD-Video on, and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.*

Signal names for mini D-sub 15 pin connector

Pin assignment for RGB/PC terminal



Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	B	11	NC
4	NC (not connected)	12	NC
5	NC	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

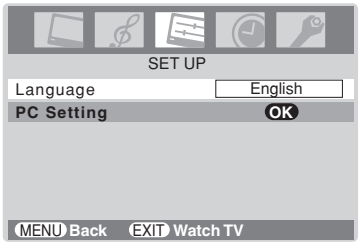
Using the PC setting

- In the PC input mode, you cannot select the **Color**, **Tint**, **Sharpness** and **DNR** in the **Picture setting** menu (☞ page 16).
- First press and hold ⊕ until the video input mode list appears on the screen, then press ▼ or ▲ and **OK** in order to select the PC input mode (☞ page 19).
- This function may not be available for some signal or if no signal is received.

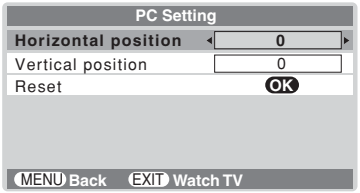
Adjusting the picture size/position

1 Press **MENU**, then press < or > to display the **SET UP** menu.

2 Press ▼ or ▲ to select **PC Setting**.



3 Press **OK** to display the **PC Setting** menu.

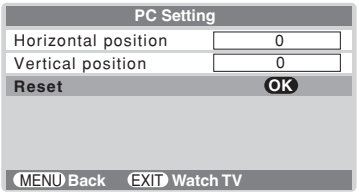


4 Press ▼ or ▲ to select an option you want to adjust. Press < or > to adjust the settings as required.

Resetting the PC setting

The Reset function adjusts the PC Setting to the factory settings.

1 From the **PC Setting** menu, press ▼ or ▲ to select **Reset**.



2 Press **OK**.

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom and solution

TV will not turn on
- Make sure the power cord is plugged in, then press ⏻/I or ⏻.
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound
- Check the antenna connections.

No sound, picture OK
- The sound may be muted. Press ◿ +, ◿ – or 🔇.
- The station may have broadcast difficulties. Try another channel.

Poor sound, picture OK
- The station may have broadcast difficulties. Try another channel.

Poor picture, sound OK
- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Adjust the **PICTURE** menu.

Poor reception of broadcast channels
- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Make sure the Color system is properly set.

Teletext problems
- Check the antenna connections. Good performance of text depends on a good strong broadcast signal.

Multiple images
- The station may have broadcast difficulties. Try another channel.
- Antenna reception may be poor. Use a high directional outdoor antenna.
- Check if the direction of the antenna has changed.

Poor color or no color
- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** in the **PICTURE** menu.

The remote control does not operate
- Remove all obstructions between the remote control and the remote control sensor on the TV.
- The remote control batteries may be dead. Replace them with new ones.

Some pixels of the screen do not light up
- The LCD display panel is manufactured using an extremely high level of precision technology, however, sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

The brightness of the screen comes down, or flickers of the screen are caused, or some parts of the screen do not light up.
- When you just buy and start to use this TV, a flickering may be caused in the screen. In this case, switch off the TV, then switch on it again to cure the condition.
- The cold cathode fluorescent lamp used for the back light on this TV has longevity. When the brightness of the screen comes down, or the flickers of the screen are caused, or some parts of the screen do not light up, it may reach the end of its life. Contact a service technician.

The picture brightness varies when you display switch the TV on.
- If you switch the TV on at 0°C and under, wait until the warms up.

Broadcast system

Broadcast transmission systems of each country or region

Asia M.E.

Country or region	Color	Sound
Bahrain, Kuwait, Israel, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, etc.	PAL	B/G
China	PAL	D/K
China Hong Kong	PAL	I
Iraq, Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
Russian Federation, etc.	SECAM	D/K
Myanmar, etc.	NTSC	M

Oceania

Country or region	Color	Sound
Australia, New Zealand, etc.	PAL	B/G

Africa

Country or region	Color	Sound
Republic of South Africa, etc.	PAL	I

South America

Country or region	Color	Sound
Argentina, Paraguay, Uruguay, etc.	PAL	N
Brazil	PAL	M
Chile, Colombia, etc.	NTSC	M

Note:
PAL, SECAM and NTSC 3.58 (MHz) are different color signal broadcast transmission systems applicable to different countries or region. NTSC 4.43 (MHz) is used in special VCRs to playback NTSC recorded video tapes through PAL television equipment.

Specifications

LCD color television

Model
20V300A, 20V300E, 20V300H, 20V300T

Power source
110V-240V AC, 50/60Hz

Power consumption
50 W, 0.9 W (standby)

Dimensions
With stand
486 mm (W) 469 mm (H) 200 mm (D)
Without stand
486 mm (W) 429 mm (H) 87 mm (D)

Mass (Weight)
8.2 kg

Television system (Antenna input)
Channel coverage:

PAL	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
PAL	I	(UK)	VHF	-
			UHF	21 - 69
			CATV	-
PAL	D/K	(CHINA)	VHF	1 - 12
			UHF	13 - 57
			CATV	Z1 - Z38
SECAM	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
SECAM	D/K	(OIRT)	VHF	1 - 12
			UHF	21 - 69
			CATV	X1 - X19
NTSC	M	(US)	VHF	2 - 13
			UHF	14 - 69
			CATV	A6 - A1, A - W, AA - ZZ, AAA, BBB
NTSC	M	(JAPAN)	VHF	1 - 12
			UHF	13 - 62
			CATV	M1 - M10, S1 - S41

Special RF signal:
NTSC 4.43 color system 5.5/6.0/6.5 MHz sound system
PAL 60 Hz color system 5.5/6.0/6.5 MHz sound system

COMPONENT VIDEO INPUT terminals (the signal format)
480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60 Hz)
(These signal formats are converted to match the number of pixels of the LCD panel.)

Color system
PAL, SECAM, NTSC 3.58/4.43

Aspect ratio
4 : 3

Visible size (diagonal)
50.8 cm

Number of pixels
800 (H) dots x 600 (V) dots

Audio power
5 W + 5 W (10% THD)

Speakers
Main 71 x 41 mm 2pcs.

Input/Output terminals

(1)	Input	
	4 pin	S-video
	Phono jacks	A/V
(2)	Input	
	Component video	Y, P_B/C_B, P_R/C_R
	Phono jacks	A/V
AUDIO	Output	
	Phono jacks	L/Mono + R
RGB/PC	Input	
	Mini D-sub 15 pin Analog RGB	
PC(AUDIO)	Input	
	3.5mm stereo	Audio L + R
Headphone jack	3.5mm (Diameter) stereo	

Operating condition
Temperature 0°C - 35°C
Humidity 20% - 80% (No moisture condensation)

Supplied accessories
Owner's manual (1), Remote control (1), Batteries (2), Clip (1)

This is used to fix the TV to a wall, pillar, etc. (☞ page 4).

- Design and specifications are subject to change without notice.
- Never service or remodel the TV by yourself. It may expose you to a fire hazard or dangerous voltages.

TOSHIBA CORPORATION